

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER EX03-078C-US  U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold;">10/532432</div>
INTERNATIONAL APPLICATION NO. Us03/33489	INTERNATIONAL FILING DATE 22 October 2003	PRIORITY DATE CLAIMED 23 October 2002
TITLE OF INVENTION MAP2K6 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF USE		
APPLICANT(S) FOR DO/EO/US Exelixis, Inc.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). ( <b>Unexecuted</b> ) 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Sequence Listing - paper copy (3 pgs), Statement under 1.821-1825 and Return Post Card		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/532432</b>		INTERNATIONAL APPLICATION NO. PCT/US03/33489		ATTORNEY'S DOCKET NUMBER EX03-078C-US					
The following fees are submitted: 21. <input checked="" type="checkbox"/> Basic national .....\$300				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">CALCULATIONS</th> <th style="width: 50%;">PTO USE ONLY</th> </tr> <tr> <td>\$ 300</td> <td></td> </tr> </table>		CALCULATIONS	PTO USE ONLY	\$ 300	
CALCULATIONS	PTO USE ONLY								
\$ 300									
22. <input checked="" type="checkbox"/> Examination Fee If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....\$100 All other situations .....\$200				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 100</td> <td></td> </tr> </table>		\$ 100			
\$ 100									
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100 International Search Report prepared and provided in the Office .....\$400 All other situations .....\$500				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 100</td> <td></td> </tr> </table>		\$ 100			
\$ 100									
<b>TOTAL OF 21, 22 and 23 =</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 500</td> <td></td> </tr> </table>		\$ 500			
\$ 500									
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> </tr> </table>					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> </tr> </table>					
- 100 =	0/50 =		x \$250	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 0</td> <td></td> </tr> </table>		\$ 0			
\$ 0									
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
Total claims	33 - 20 =	13	x \$50	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 650</td> <td></td> </tr> </table>		\$ 650			
\$ 650									
Independent claims	3 - 3 =	0	x \$200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 650</td> <td></td> </tr> </table>		\$ 650			
\$ 650									
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
<b>SUBTOTAL =</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 1,150.</td> <td></td> </tr> </table>		\$ 1,150.			
\$ 1,150.									
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
<b>TOTAL NATIONAL FEE =</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 1,150.</td> <td></td> </tr> </table>		\$ 1,150.			
\$ 1,150.									
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$</td> <td></td> </tr> </table>		\$			
\$									
<b>TOTAL FEES ENCLOSED =</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>\$ 1,150.</td> <td></td> </tr> </table>		\$ 1,150.			
\$ 1,150.									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Amount to be refunded:</td> <td style="width: 50%;">\$</td> </tr> <tr> <td>Amount to be charged:</td> <td>\$</td> </tr> </table>		Amount to be refunded:	\$	Amount to be charged:	\$
Amount to be refunded:	\$								
Amount to be charged:	\$								
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>50-1108</u> in the amount of \$ <u>1,150.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-1108</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO: CUSTOMER NO. 23500 EXELIXIS, INC. ATTN: PATENTS P. O. BOX 511, 170 HARBOR WAY SOUTH SAN FRANCISCO, CA 94083-0511									
				SIGNATURE <u>Laleh Shayesteh</u> NAME 47,937 REGISTRATION NUMBER					